

CLAIMS

1. An information recording medium comprising:

5 a first recording layer having a first calibration area in which test information for calibrating a power of laser light in recording record information can be recorded; and

a second recording layer having a second calibration area in which the test information can be recorded and in which at least one portion of a recording area faces the first calibration area, wherein

10 the first calibration area and the second calibration area comprise a space area having a predetermined size in positions facing each other,

the test information is recorded in a recording area located on one side, centered on the space area, in the first calibration area, and

15 the test information is recorded in a recording area located on other side which is opposite to the one side, centered on the space area, in the second calibration area.

2. The information recording medium according to claim 1, wherein said information recording medium has a disc-shape, and

20 the predetermine size is a sum of an eccentricity in each of said first recording layer and said second recording layer and a radius of a laser spot in said first recording layer in the case in which the laser light is focused on said second recording layer.

25 3. The information recording medium according to claim 1, wherein position information which indicates a position of the space area is recorded

in at least one of said first recording layer and said second recording layer.

4. The information recording medium according to claim 1, wherein
said information recording medium has a disc-shape, and

5 the one side is an outer circumferential side of said information
recording medium, and the other side is an inner circumferential side of said
information recording medium.

5. The information recording medium according to claim 1, wherein

10 in the first calibration area, an area portion of a predetermined size is
used toward one direction when the test information is recorded, and

in the second calibration area, an area portion of a predetermined size
is used toward other direction which is opposite to the one direction when the
test information is recorded.

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6. An information recording apparatus for recording record information
onto an information recording medium comprising: (i) a first recording layer
having a first calibration area in which test information for calibrating a
power of laser light can be recorded; and (ii) a second recording layer having a
20 second calibration area in which the test information can be recorded and in
which at least one portion of a recording area faces the first calibration area,
said information recording apparatus comprising:

a first calibrating device for calibrating the power for recording the
record information into said first recording layer, by recording the test
25 information into a recording area adjacent to either a starting point or an end
point of the first calibration area, out of the first calibration area;

a second calibrating device for calibrating the power for recording the record information into said second recording layer, by recording the test information into a recording area other than both a recording area facing the recording area adjacent to either the starting point or the end point of the first calibration area and a space area having a predetermined size, out of the second calibration area; and

a recording device for recording the record information by irradiating the laser light having the power which is calibrated by at least one of said first calibrating device and said second calibrating device.

7. The information recording apparatus according to claim 6, further comprising:

a judging device for judging whether or not the test information can be recorded while remaining the space area in positions facing each other in both the first calibration area and the second calibration area; and

a stopping device for stopping the calibration of the power performed by each of said first calibrating device and said second calibrating device if it is judged that the test information cannot be recorded while remaining the space area.

8. The information recording apparatus according to claim 6, wherein said first calibrating device records the test information in order from one end portion of the starting point and the end point of the first calibration area, and

said second calibrating device records the test information in order from other end portion of the second calibration area which is opposite to the

one end portion .

9. The information recording apparatus according to claim 6, wherein
said first calibrating device records the test information such that an
5 area portion of a predetermined size is used toward one direction in the first
calibration area, and

said second calibrating device records the test information such that
an area portion of a predetermined size is used toward other direction which
is opposite to the one direction in the second calibration area.

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10. The information recording apparatus according to claim 6, wherein
said information recording medium has a disc-shape, and
the predetermine size is a sum of an eccentricity in each of said first
recording layer and said second recording layer and a radius of a laser spot in
15 said first recording layer in the case in which the laser light is focused on said
second recording layer.

11. The information recording apparatus according to claim 6, wherein
said first calibrating device prepares first use condition information
20 which indicates a recording condition of the test information in the first
calibration area, and

said second calibrating device prepares second use condition
information which indicates a recording condition of the test information in
the second calibration area.

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12. A computer program for recording control to control a computer

provided for the information recording apparatus according to claim 1, said computer program making the computer function as at least one portion of said first calibrating device, said second calibrating device and said recording device.